

KOROLYUK, V.S.; SHKABARA, Ye.A. [Shkabara, K.O.]; YUSHCHENKO, Ye.L.  
[Ushchenko, K.L.]

Group operations of the "Kyiv" computer. Zbir. prats' z  
obchys. mat. i tekhn. 2:16-20 '61. (MIRA 15:2)  
(Electronic digital computers)

SHKABARA, Ye.A. [Shkabara, K.O.]; KOZUBOVSKIY, S.F. [Kozubovs'kyi, S.F.]  
Conception of self-organization in cybernetics (review of G.Pask's  
book "An approach to cybernetics"). Avtomatyka 8 no.1:90-93  
'63. (MIRA 16:3)  
(Cybernetics) (Pask, G.)

L 41842-65 EWT(d)/EED-2/EWP(1) Pg-4/Pk-4/Pq-4 IJP(c) GG/BB

ACCESSION NR AM5006619

BOOK EXPLOITATION

S/

361  
111

Dashevskiy, Lev Naumovich (Candidate of Technical Sciences); Pogrebinsky,  
Solomon Beniaminovich (Engineer); Shkabara, Yekaterina Alekseyevna  
(Candidate of Technical Sciences)

The "Kiev" computer; design and application (Vychislitel'naya mashina "Kiyev"; proyektirovaniye i ekspluatasiya), Kiev, Izd-vo "Tekhnika", 1964, 322 p. illus., biblio. 4,600 copies printed.

TOPIC TAGS: computer technology, digital computer KIYEV

PURPOSE AND COVERAGE: This book collected the experience in the design and use of the asynchronous universal digital computer "Kiev". The principles of its construction and structure circuitry, the method of performing control and arithmetic operations, and the schematics of the elements, components, and basic units of the computer are described. The book includes the methods of calculating and investigating the reliability of a digital computer and problems of organizing the use of large electronic digital computers. The book is intended for engineers, researchers, students and graduate students in the field of computer technology and cybernetics and also for specialists interested in the development and use of computer and control equipment.

Card 1/2

SUBMITTED: 31 JUL 64

SHKABARIYA, N.G.

Exclusion of systematic errors in the interpretation of the curves  
of the formation of the electromagnetic field. Razved. georiz.  
no.5890-95 '65. (MIRA 18:9)

SHKABARNYA, B.M., inzh.; SOLOV'YEV, G.A., inzh.; STANKEVICH, I.M., inzh.; LISOVSKIY, G.D., inzh.

Using reduced diameter boreholes. Gor. zhur. no.8:74  
Ag '64. (MIRA 17:10)

1. Salairskiy rudnik (for Shkabarnya, Solov'yev).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy metallurgii (for Stankevich, Lisovskiy).

SOV/49-59-10-9/19

AUTHORS: Matveyev, B. K., and Shkabarnya, N. G.TITLE: Electro-Profiling Above a Sphere Situated Near a Contact of two MediaPERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya  
1959, Nr 10, pp 1492-1499 (USSR)

ABSTRACT: A method is described where an approximate solution is found of a problem of disturbances of an electric field caused by a sphere which is situated at a contact of two media of different resistances. This solution is derived from a distribution of the potential of the point-electrode A in the space consisting of two media, one of them containing a sphere. The current from A is denoted by I; the specific resistances of both media and of the sphere are  $\rho_1$ ,  $\rho_2$ , and  $\rho_0$  respectively. The electrode A is placed in the first medium at the distance L from the contact and at  $d_1$  from the centre of the sphere positioned in the second medium (Fig 1). Then the required potential functions in the first ( $U_1$ ) and second ( $U_2$ ) medium will be expressed as Eqs (1) and (2) which become Eqs (4) and (5) if functions  $U'$ ,  $U''$  

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SOV/49-59-10-9/19

## Electro-Profiling Above a Sphere Situated Near a Contact of two Media

and  $U'''$  (Eq (3)) determining the effect of the sphere are considered. The resistivity of a medium can be defined in the form of Eq (21), which, in the case of a three-electrode assymetrical profile, can be shown as Eqs (22), (23) and (24). These correspond to three cases: a - no sphere present, b - a sphere is positioned in a medium with the receiving electrode, and B - both the transmitting and receiving electrodes and the sphere are placed in the same medium. The graphs based on Eqs (22) to (24) are illustrated in Figs 2 to 4. Figs 2 and 3 represent the curves of  $\rho_k$  for a three-electrode method, and Fig 4 represents the curves for a four-electrode method. There are 4 figures and 4 Soviet references.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm State University)

SUBMITTED: June 10, 1958  
Card 2/2

(V)

S/169/62/000/006/034/093  
D228/D304

AUTHOR: Shkabarnya, N. G.

TITLE: Quantitatively interpreting the curves of high-frequency electric sounding in the Cisurals foredeep

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 30-31,  
abstract 6A230 (Uch. zap. Permsk. un-ta, 11, no. 1,  
1959, 84-88)

TEXT: In the Cisurals foredeep electric prospecting operations were conducted by the method of high-frequency electric sounding (HES) in order to study the roof of Kungurian anhydrite and gypsum deposits. It is practically impossible to interpret quantitatively the curves of HES owing to the reference horizon's poor persistence along the strike, the sharp change in the thickness and resistivity of separate layers, and the strongly dissected topography. It is also impracticable to interpret the curves of HES by the method of comparison. This method is based on the comparison of the summary conductivities  $S_1$  (of the parametric curve executed near

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quantitatively interpreting the ...

the borehole) and  $S_2$  (of the curve under interpretation) when  $\rho_e$ , the value of the average longitudinal resistance of the bed over the reference horizon -- is constant and  $H_2$  is calculated from the formula:  $H_2 = (H_1 S_2)/S_1$ , where  $H_2$  is the depth to the reference horizon determinable from the HES data, and  $H_1$  is the depth to the reference horizon determinable from the borehole. It is suggested that the HES curves should be interpreted by using data about the total conductivity  $S$  and the magnitude of  $\rho_e$ . The magnitudes of  $S$  for each curve are ascertained by the usual method. The values of  $\rho_e$  are first calculated from the parametric HES curves and are considered to be reference values; for the remaining curves they are found from the expression  $\rho_k(\min)/\rho_e = f(\mu, v)$  (the method of Areynes). A regional map, allowing the nature of the change in the resistivity of the bed above the reference horizon to be traced, is reconstructed from the values obtained for  $\rho_e$ . The depth of the re-

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Quantitatively interpreting the ... S/169/62/000/006/034/093  
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ference horizon is calculated from the formula  $H = \rho_e \cdot s.$  *[Abstracter's note: Complete translation.]*

Card 3/3

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OGIL'VI, A.A.; MATVEYEV, B.K.; SHKABARNYA, N.G.

Electric investigation of the Kungur karst cave. Vest. Mosk.un.  
Ser.4: Geol. 15 no.3:71-77 My-Je '60. (MIRA 13:8)

1. Kafedry geofizicheskikh metodov issledovaniya Moskovskogo  
i Permskogo universitetov.  
(Kungur cave)

SHKABARNYA, N.G., aspirant; YELISEYENKO, L.A.

Concerning the interpretation of vertical electric sounding  
curves on an electronic computer. Izv. vys. ucheb. zav.;  
geol. i razv. 7 no.11:94-97 N '64. (MIRA 18:5)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHKABARNYA, N.G.

Study of the geoelectric cross section using electronic digital  
computers. Uch. zap. Perm. gos. un. no.122:68-75 '64.  
(MIRA 19:1)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

S/137/61/000/006/042/092  
A006/A101

AUTHORS: Gulyayev, O.I., Finkel'shteyn, Ya.S., Gulyayev, I.N., Kolpovskiy,  
N.M., Osinskiy, V.A., Chudnyy, I.G., Bogomazov, M.M., Shkabatur,  
K.I.

TITLE: Investigating the operation of a three-roll reduction mill

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 6, 1961, 35, abstract 6D285  
("Byul. nauchno-tekhn. inform. Ukr. n.-i. truda", 1959, no.  
6 - 7, 48 - 57)

TEXT: The authors studied the operation of an 18-sand three-roll reduction mill for the purpose of establishing the rolling technology for both seamless and welded water-gas pipes under conditions of the Plant imeni Lenin. It was established that the combination of the former grooving of the rolls with kinematics of a three-roll reduction mill, makes it possible to obtain the necessary elongation only when reducing welded pipes of 2 and  $1\frac{1}{2}$ " diameter to 1" diameter. In the other cases the wall of the central pipe section is, after rolling, thicker than required by GOST 3252-55. The authors calculated and investigated new calibration of the rolls, for reducing pipes from 48 x 3.5 mm to

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ACC6/A101

Investigating the operation ...

21.25 x 2.75 mm. It was established that the efficiency can be raised if pipes of 2,  $1\frac{1}{2}$  and  $1\frac{1}{4}$ " diameter are manufactured only by welding on mill no. 2, and pipes of  $1\frac{1}{2}$ ,  $\frac{3}{4}$  and  $\frac{1}{2}$ " diameter on mill no. 1 with the use of reduction. Preliminary calculations have shown that the reduction of 7.5 m long pipes from a 2" diameter to  $1\frac{1}{4}$ ", from 2" to  $\frac{3}{4}$ " and from  $1\frac{1}{2}$ " to  $\frac{1}{2}$ " will raise the efficiency of the pipe-welding shop at the Plant imeni Lenina by 12.81%; the coefficient of metal consumption will increase by 14%. To maintain the coefficient of metal consumption on the level of planned figures, and to obtain a further increase in the efficiency of the reduction mill, it is necessary to increase the length of the welded pipes prior to rolling up to 9.6 - 15.5 m.

Yu. Manegin

[Abstracter's note: Complete translation]

Card 2/2

36798  
S/137/62/000/004/073/201  
A052/A101

AUTHORS: / 2300 Vol'per, Yu. D., Shkabatur, K. I.  
TITLE: Manufacture of electrowelded shaped pipes at Plant im. Lenin  
PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 38, abstract 4D221  
(V sb. "Proiz-vo trub". Khar'kov, Metallurgizdat, no. 4, 1961, 72-78)

TEXT: The experiments on the manufacture of electrowelded shaped pipes at the Plant im. Lenin provided for their profiling directly on the electric pipe welding unit whose sizing mill consists of 3 horizontal driven stands, 3 vertical non-driven stands and a dressing head. At the normal operation of the unit the pipes, on leaving the sizing mill, have a certain curvature; however, the profiling and dressing of pipes proved impossible in the dressing head rolls at the same time. The experiments on profiling pipes with a simultaneous dressing by the usual method (by changing the relative position of cassettes of the dressing head) resulted in angles of different curvature in pipes, that is, in a distortion of their profile. Also the conveyance of pipes beyond the sizing mill limits was difficult, since the dressing head rolls are non-driven ones. For this reason the strip reels were butted by means of autogenous welding which led to ✓

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Manufacture of electrowelded ...

an increased metal consumption (cutting out non-fusions and butts) and to a lower efficiency of the mill owing to stops. The use of the third stand of the sizing mill made possible to cut considerably the load on the dressing head rolls. The dressing of pipes caused no special difficulties. However, also this technological version did not eliminate the difficulties with the conveyance of pipes beyond the sizing mill limits. The most effective method of producing electro-welded shaped pipes is their production directly on the electric pipe welding unit by means of four-high stands of the sizing mill and also the application of a reliable and speedy method of cutting pipes running. The following sizes of electrowelded shaped pipes are introduced: 80 x 60 x 4.0, 60 x 60 x 4.0 and 60 x 40 x 4.0 mm. ✓

K. Ursova

[Abstracter's note: Complete translation]

Card 2/2

S/137/62/000/002/061/14  
ACC6/A101

AUTHORS: Vol'per, Yu. D., Shimbatur, K. I.  
TITLE On prolonged service life of electric pipe-welding machine rolls  
PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1952, 29, abstract 2D153  
(v sb. "Proiz-vo trub", no. 5, Khar'kov, Metallurgizdat, 1951,  
118 - 125)

TEXT At the Plant imeni Lenin experiments were carried out to determine maximum permissible wear of the rolls of an electric pipe-welding machine in the production of basic assortment pipes. A method is suggested for calculating the dimensions of rolls of the shaping and grooving stands in regrinding; the method makes it possible, by measuring the maximum wear of rolls, to determine the magnitudes of optimum approach of semi-rolls and of the roll diameter after regrinding. Calculation of the magnitude of the semi-rolls approach by the formula derived yields an optimum magnitude of this value which is required to assure minimum reduction of the diameter of rolls to be recovered. Reconditioning of the shaping and grooving stand rolls, which is based on the calculation of their dimensions

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On prolonged service life of...

S/137/62/000/002/061/144  
AC06/A101

during regrinding, reduces the cost price of welded pipes on account of a lesser roll consumption per 1 ton of finished production.

K. Ursova

[Abstracter's note: Complete translation]

Card 2/2

ZIL'BEISHTYVN, L.I., kand. tekhn. nauk; BONGANT, A.G., kand. ekonom. nauk;  
SHKABATUK, K.I., inzh.; MIZRA, V.I., inzh.; VOL'PER, Yu.D., inzh.

Metal consumption coefficients in the production of small and medium  
diameter, electrically welded pipe. Proizv. trub no.10:62-66 '63.  
(MIRA 17:10)

SHKABATURA, Yu.P.

Developing founding at the Ural Machinery Plant. Sbor.st.UZTM  
no.4:3-18 '58. (MIRA 11:12)  
(Sverdlovsk--Founding)

GRUNENYSHEV, Nikolay Aleksandrovich, inzh.; SHKABEL'NIKOV, Gennadiy  
Petrovich, inzh.; GRIGOR'YEV, Pavel Vasil'yevich, inzh.;  
POPOV, Ye.I., inzh., red.; KHITROV, P.A., tekhn.red.

[Railroad motorcars; design, operation, and maintenance]  
Motovozy i avtodreziny; ustroistvo, ekspluatatsiia i ukhod.  
Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 245 p. (MIRA 13:2)  
(Railroad motorcars)

SHKABEL'NIKOV, Gennadiy Petrovich; KHARITONOV, M.F., inzh., -  
retsenzent; PREOBRAZHENSKIY, Yu.N., inzh., red.;  
USENKO, L.A., tekhn. red.

[Dismountable railroad motorcars] Sistemnye motodreziny.  
Moskva, Transzheldorizdat, 1963. 226 p. (MIRA 16:5)  
(Railroad motorcars)

ADAMOVICH, P.V.; BATURIN, V.V.; VAKHVAKHNOV, G.G.; VAYNGAUZ, L.G.;  
VILENSKIY, Ye.Ya.; GAMBURG, P.Yu.; DAVYDOV, Yu.S.; KARPIK,  
Ye.Ye.; KUZNETSOVA, Z.I.; KOP'YEV, S.F.; LIVCHAK, I.F.;  
LOBACHEV, P.V.; LEV, G.M.; NOTKIN, Ye.M.; PIRUMOV, A. I.;  
POLIKARPOV, V.F.; PROTOPOPOV, A.P.; REPIN, N.N.; SLADKOV,  
S.P.; TALIYEV, V.N.; TROITSKAYA, F.B.; FEDOROV, M.N.;  
SHEVELEV, F.A.; SHKABEL'NIKOVA, L.P.; SHCHUTSKIY, A.I.;  
SMIRNOV, L.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.  
izd-va; MOCHALINA, Z.S., tekhn. red.; RODINOVA, V.R., tekhn.  
red.

[Present level and prospects for the development of sanitary  
engineering and the production of sanitary engineering equip-  
ment] Sovremennyi uroven' i perspektivy razvitiia sanitarnoi  
tekhniki i proizvodstva sanitarno-tekhnicheskogo oborudova-  
nia. Moskva, Gosstroizdat, 1962. 283 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut  
sanitarnoy tekhniki.

(SANITARY ENGINEERING)

REPIN, N.N., kand.tekhn.nauk; SHKABEL'NIKOVA, L.P., inzh.; ROTIN, A.L.,  
kand.tekhn.nauk

Results of the competition for the best design of a three-speed  
controlling radiator cock. Vod. i san. tekh. no.7:1-5 J1  
'62. (MIRA 15:9)  
(Radiators—Equipment and supplies)

SHKARENKO, V.S.  
6692

Moi Priyemy I Metody Skorostnoy Obrabotki Metalla. (Iz Opyta Paboty Na  
Tokarno-Bintoreznom Stanke "DIP-200"). (Kurskiy Mekhan. Zavod). Kursky, Kn.  
Izd., 1954. 20 s.s. Chert. 20 sm. (Opyt Novatorov Proizvodstva). 1.000 Ekz.  
30 k.- (55-2928) p 621.941.25.01 st

SO:Knizhnaya Letopis 'N'q6, 1955

SHYABERDA, V.

Obzor et problems. Sotsialisticheskaya zhurnalistika 5 no. 277 S '57. (MLRA 10:9)

"Agronom kol'koma 'Chervone selo,' Kozel'skogo reyona,  
Chernigovskoy oblasti.  
(Agriculturists)

SHKABROV, N.K., assistant.

Control of lice and ticks in sheep. Veterinariia 33 no.5:65-67  
My '56. (MLRA 9:8)

1. Omskiy veterinarnyy institut.  
(Ticks) (Lice) (Sheeps--Diseases and pests)

NIKOLAYEV, B.A.; SHKADINA, S.S.

Effect of enzymic preparations of molds on the elastic-resistant-viscous properties of hydrated protein and starch structures. Dokl.AN SSSR 133 no.4:893-896 Ag '60.  
(MIRA 13:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlebopекарной промышленности. Predstavleno akad. P.A.Rebinderom.  
(Proteins) (Starch) (Enzymes)

ACC NR: AT6034343

SOURCE CODE: UR/0000/66/000/000/0200/0206

AUTHOR: Shkadinskiy, K. G. (Moscow)

ORG: none

TITLE: Method of averaging for numerical solution of one-dimensional gas dynamic problems

SOURCE: Chislennyye metody resheniya zadach matematicheskoy fiziki (Numerical methods of solving problems in mathematical physics); sbornik statey. Moscow, Izd-vo Nauka, 1966, 200-206

TOPIC TAGS: numeric solution, gas dynamics, nonlinear differential equation, approximation method

ABSTRACT: A recurrent, or periodic, averaging process is described for numerically integrating one-dimensional gas dynamics equations. As a sample equation, the Cauchy problem is considered:

$$\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} = 0; \\ u(0, x) = \begin{cases} \Delta u, & x < -\Delta, \\ -\frac{\Delta u}{2} \left(\frac{x}{\Delta} - 1\right), & x \in [-\Delta, \Delta], \\ 0, & x > \Delta. \end{cases} \quad (1)$$

UDC: 517.9:533.7

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ACC NR: AT6034343

The averaging is carried out through the integral

$$y(x) = \int K(s-x) u(s) ds \quad (2)$$

where  $y(x)$  is expanded in the Taylor series

$$y(x) = u(x) + (bu') \quad (3)$$

$$y(x) = u(x) + (by'')$$

and is substituted back into (2). The coefficient  $b$  is given in terms of an "effective smearing width"  $\Delta$  or,

$$b = \frac{-u' \Delta t \Delta^2}{4} \quad (4)$$

The method is then applied to the plane-parallel flow of an ideal gas where the quantities  $\rho$ ,  $\rho u$ , and  $\rho E$  are averaged for small  $\Delta t$ , leading to the following set of equations, with artificial viscosity:

$$\begin{aligned} \frac{\partial \rho}{\partial t} + \frac{\partial}{\partial x} \left( \rho u - b \frac{\partial \rho}{\partial x} \right) &= 0, \\ \frac{\partial \rho u}{\partial t} + \frac{\partial}{\partial x} \left( \rho u^2 + p - b \frac{\partial \rho u}{\partial x} \right) &= 0, \\ \frac{\partial \rho E}{\partial t} + \frac{\partial}{\partial x} \left( u (\rho E + p) - b \frac{\partial \rho E}{\partial x} \right) &= 0, \quad b = \bar{c} \Delta t \end{aligned} \quad (5)$$

The method is then extended to the case of cylindrically and spherically symmetric problems; the equations are written in finite difference form and integrated. The

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ACC NR: AT6034343

author expresses his thanks to A. A. Milyutin for formulating the problem and for his help in solving it, and to Ya. M. Kazhdan for providing the results of the self-similar problem. Orig. art. has: 51 equations and 2 figures.

SUB CODE: 20/ SUBM DATE: 20May65/ ORIG REF: 003  
12/

Card 3/3

SHKADOV, D. M.

AID P - 319

Subject : USSR/Engineering  
Card : 1/1  
Author : Shkadov, D. M., Engineer  
Title : Stock wooden scaffoldings with adjustable working levels  
Periodical : Sbor. mat. o nov. tekhn. v stroi., 3, 13-14, 1954  
Abstract : For bricklaying inside buildings and plastering works, framed scaffoldings are suggested in which boards are placed on removable cantilever brackets which can be easily adjusted to different working levels. This type of scaffolding has been used in one of the Building Trusts of the Ministry of Construction. Details are shown in a graph.  
Institution : None  
Submitted : No date

SHKADOV, D.N., inzhener.

Prefabricated, re-useable rafter structures. Biul.stroi.tekh. 10 no.13:14-15  
Ag '53. (MLRA 6:10)

1. Treat Sevuraltyazhstroy.

(Roofs)

173000

3,9200 (1080,1121,1132)

32637  
S/040/62/026/001/002/023  
D237/D304

AUTHORS:

Illarionov, V. F. and Shkadov, L.M. (Moscow)

TITLE:

Rotation of the plane of the circular orbit of the satellite

PERIODICALS: Akademiya nauk SSSR. Otdeleniye tekhnicheskikh nauk.  
Prikladnaya matematika i mehanika, v. 26, no. 1, 1962,  
15-21

TEXT: The author considers the motion of an orbital device in a circular orbit under the action of force  $F$ , whose vector at any time lies in the plane of the horizon and is normal to velocity vector. For the case  $F = \text{const.}$ , the author solves the equations of motion and shows that the trajectory is a plane curve and gives the rotation of that plane. Velocity modulus and elevation of the satellite are in this case constant. When the action of  $F$  ceases, the orbit becomes central again, but displaced with respect to the non-perturbed orbit by the angle  $\psi$  shown on Fig. 4, where 1 - initial orbit, 2 - orbit under the constant action of side thrust,

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Rotation of the plane ...

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3 - powered flight path and 4 - free-fall orbit. AB and A'B' are maximum deviations of the device.  $\psi$  is then determined for a given amount of fuel  $\phi$ , and expressed as a periodic function, while  $\alpha$  is given in terms of the associated ideal velocity. Parameters of the end of powered flight and parametric equations of motion in free-fall are given. Finally, the author notes that if aerodynamic forces act as a part of F, then the possible angle of rotation of the orbital plane for a given amount of fuel will be directly proportional to the magnitude of the aerodynamic force. There are 5 figures and 1 Soviet-bloc reference.

SUBMITTED: September 26, 1961

Card 2/6 2

SHKADOV, R.I.

Motion of suspended particles in a gas flow. Zap. LGI 36 no.3:  
139-145 '58. (MIRA 16:5)  
(Suspensions (Chemistry)) (Gas flow)

SOV/20-126-4-11/62

10(4), 10(7)

AUTHOR: Shkadov, V. Ya.

TITLE: On the Integration of the Equations of a Boundary Layer (Ob  
integrirovani uравнений пограничного слоя)PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4,  
pp 730 - 732 (USSR)ABSTRACT: A method has recently been suggested, which makes it possible  
to reduce calculations of a boundary layer which is described  
by a nonlinear differential equation, to a partial differential  
equation, the solution of which is a boundary problem for ordi-  
nary linear differential equations. In the case of the flow of an  
incompressible gas, this function will depend on the physical  
characteristic of the gas and on the boundary conditions for the  
temperature of the contours round which the flow takes place.  
The function of the flow on a plane boundary layer of an in-  
compressible liquid appears as the solution of the equation (1).  
The solution of equation (1) is given in equation (3). If the  
solution (3) is substituted into equation (1), the system of  
equations (4) is obtained for the unknown functions occurring  
in (3) which may be solved at the boundary conditions (5). Next,  
a compressible gas is investigated, the viscosity of which de-

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On the Integration of the Equations of a Boundary Layer SOV/20-126-4-11/62

pends linearly on temperature. By basing upon the flow function and the energy equation, the temperature of the boundary layer is assumed to be constant. The solutions are in series and the unknown functions occurring therein are calculated by means of the system of equations (14). Finally, it is shown that the same method may be employed for the boundary layer of a heat-insulated profile. There is 1 reference.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: January 29, 1959, by G. I. Petrov, Academician

SUBMITTED: January 27, 1959

Card 2/2

L 11276-63

EPA(b)/EWT(1)/BDS—AEDC/AFFTC/ASD—Pd-4/P1-4

ACCESSION NR: AP3000879

S/0179/63/000/002/0028/0032

60

AUTHOR: Shkadov, V. Ya. (Moscow)TITLE: Boundary layer with pressure gradient in compressible fluid flowSOURCE: AN SSSR. Izv. Otd. tekhn. nauk. Mekhanika i mashinostroyeniye,  
no. 2, 1963, 28-32

TOPIC TAGS: boundary layer, compressible fluid, compressible fluid flow, flow, cylinder

ABSTRACT: An analysis has been made of a boundary layer problem in a compressible fluid flow under the assumption that the viscosity varies linearly with temperature and that the Prandtl number is constant. A system of equations for the laminar boundary layer is derived and solved by the method applied earlier by Shkadov to the problem of a boundary layer in an incompressible fluid flow. A numerical solution was obtained for a boundary layer in the flow of fluid past a circular cylinder at high subsonic velocities. Orig. art. has: 3 figures, 21 formulas, and 1 table.

ASSOCIATION: none

Card 1/2

SHKAD'WA, A.K.

Methodology of climatological processing of observations of  
surface soil temperatures. Trudy GGO no.162:43-63 '64.  
(MIRA 17:7)

D'YAKOV, K.N., inzh.; SHKADRETSOV, I.Ye., inzh. (Leningrad).

Improving the subgrade. Put' i put. khoz. no. 6:19-20 Je '58.  
(Railroads--Track) (MIRA 11:6)  
(Railroads--Earthwork)

SHABALIN, G.I., inzh. (Leningrad); D<sup>1</sup>YAKOV, K.N., kand.tekhr.nauk  
(Leningrad); SHKADRETSEV, I.Ye., inzh. (Leningrad)

Electrochemical soil stabilization. Put' i put.khoz. 5 no.11:20..  
22 N '61. (MIRA 14:12)

1. Nachal'nik sluzhby puti, Leningrad (for Shabalin)  
(Railroads—Track)  
(Soil stabilization)

SHKADYUK, N.A.

Medical gymnastics and massage in the treatment of poliomyelitis.  
Vop.kur., fizioter.i lech.fiz.kul't. 28 no.1:76-77 '63.  
(MIRA 16:4)

1. Iz kliniki nervnykh bolezney (zav. - prof. M.A.Khazanov)  
Minskogo meditsinskogo instituta.  
(GYMNASTICS, MEDICAL) (MASSAGE) (POLIOMYELITIS)

SHKAF, Ye. S.

"Research on the Problem of Preparing Fruit Plant Seeds for Planting." Cand Agr  
Sci, North Ossetian Agricultural Inst, Min Higher Education USSR, Ordzhonikidze, 1954.  
(KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational  
Institutions (13)  
SO: Sum. No. 598, 29 Jul 55

YEVVTUSHENKO, G.A.; SHPOTA, L.A.; SHKAF, Ye.S.

Photosynthesis and respiration in irrigated sugar beets in relation to  
the density of stands. Fiziol. rast. 8 no.1:13-18 '61. (MIRA 14:3)

1. Department of Plant Physiology Kirghiz State University, Frunze.  
(Kirghizistan--Sugar beets--Irrigation)(Plants--Respiration)  
(photosynthesis)

SHKAFOVA, K.L.

Efficacy of controlling of the carrying of diphtheria bacilli by irrigating  
the nasopharynx with penicillin. Vest.oto-rin. 15 no.4:91 Jl-Ag '53.  
(MLRA 6:9)

1. Gor'kovskiy oblastnoy nauchno-issledovatel'skiy pediatrichekiy institut.  
(Penicillin) (Diphtheria)

SHKAFOVA, K.L.

Penicillin irrigation of the nasopharynx in control of diphtheria carriage in children. Pediatriia no.4:55-57 J1-Ag '54. (MLRA 7:10)

1. Iz Gor'kovskogo oblastnogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir. A.A.Prokof'yeva)

(DIPHTHERIA, prevention and control,  
penicillin irrigation of nasopharynx in carriers)

(PENICILLIN, therapeutic use,  
diphtheria prev., irrigation of nasopharynx in  
carriers)

41804

S/194/62/000/008/096/100  
D413/D308

21085

AUTHORS: Gordiyenko, N.K., Mikhaylov, N.F., and Shkakina, E.P.

TITLE: A twin-channel oscillator for phase measurements

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-7-235 b (Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova, no.1, 1960, 59-64)

TEXT: A description is given of a twin-channel oscillator designed for the calibration of phase detectors and for the measurement of phase shifts in four-terminal networks by the compensation technique. The instrument uses a circuit for adjusting the phase-shift between two microwave signals generated by it, by means of a standard slotted measuring line having a matched load at its end. The two signals differ in frequency by about 30 Mc/s, and both are generated by klystrons. They are combined in crystal mixers. One of the arms contains a phase-shifter with shift variable from 0 to  $360^\circ$ . In the output of both channels are IF amplifiers (amplifying and filtering the signals) and a null indicator for finding the

Card 1/2

✓

S/194/62/000/008/096/100

D413/D308

A twin-channel oscillator for ...

initial phase-shifter setting at the start of the measurement. The oscillator can also be used for pulse working. Its maximum overall error is about 4°. [Abstracter's note: Complete translation.]

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

BOBROV, B.S. (Ryazan'); GRYAZNOV, A.L. (Ryazan'); GRYAKALOV, V.A. (Ryazan');  
SAL'NIKOV, V.Ya. (Ryazan'); UDALOV, V.F. (Ryazan'); FROLIN, M.I.  
(Ryazan'); SHKHALAKHOV, Yu.Sh. (Ryazan')

System for the automatic control of distributed objects using  
operating lines of automatic telephone exchanges as communication  
channels. Avtom. i telem. 24 no.11:1593-1596 N '63.  
(MIRA 16:12)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

SHKALENKO, R.A.

- ✓ 4131. URGENT PROBLEMS IN DEVELOPMENT OF PEAT GASIFICATION. Kantrov, M.V. and Shkalenko, R.A. (Trud. Ural. Politech. Inst. (PTrO. Ural. Polytech. Inst.), 1955, (53), 108-117; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1956, (16), 51852). In order to improve the operation of gas generating stations it is necessary to tighten up specifications for moisture, content of fines and degree of decomposition, and to introduce additional conditions to narrow the range of sizes, increase the strength and uniformity, and define the ash fusion temperature. Large gas generating stations should have fuel preparation plants to ensure greater uniformity in quality and size. This in turn would lead to improvements in gasification plant.

Fuel 2/

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

GINZBURG, D.B.; SHKALENKO, R.A.

Construction of a peat gas producer for large peat blocks.Gaz.prom.  
no.4:6-10 Ap '56. (MLRA 10:1)

(Peat) (Gas producers)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

*SHKALIKOV, F.V.*  
SHKALIKOV, F.V.

Flowoff formation in temporary streams. (According to data of the  
flowoff station of western Kazakhstan). Trudy Kaz. NIGMI no.9:73-93  
'57. (MIRA 11:1)  
(Kazakhstan--Stream measurements)

SHKALIKOV, F.V.

The river network of Kazakhstan. Trudy KazNIGMI no.11:90-95 '59.  
(MIRA 13:6)  
(Kazakhstan--Rivers)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHKALIKOV, F.V.

Surface flow from runoff plots in the region of the experimental watershed in western Kazakhstan. Trudy KazNIGMI no.12:107-125  
'59.

(MIRA 13:5)

(Kazakhstan--Runoff)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

SHKALIKOV, F.V.

Effect of the intensity of snow melting on the flow of small  
streams which dry up during the season. Trudy Kaz.NIGMI  
no.16:41-67 '61. (MIRA 15:5)  
(Kazakhstan--Thawing) (Hydrology)

SHKALIKOV, F.V.

Maximum discharge of water of ravines with intermittent streams  
and factors determining them. Trudy KazNIGMI no.17:39-44 62  
(NIRA 18:2)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

UKHANOV, A.G., kand. tekhn. nauk; SHKALIKOV, G.S., inzh.

Testing the heat transmission and permeability of concrete heating  
panels. Sbor. trud. VNIIGS no.9:93-107 '58. (MIRA 12:?)  
(Radiant heating)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

SHKALIKOV, G.S., inzh.

Metalless concrete heating devices. Nov.tekh.mont.i spets.rab.v  
stroi. 21 no.9:15-18 S '59. (MIR 12:11)  
(Ruidant heating)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

M. AULIN V. I. \*

SHVALIKOV, M. S. - "INVESTIGATION OF THE VIABILITY OF GRAY IRON WITH SPHERICAL GRAPHITE, WITH ULTRASONIC FRICTION." (MAY 1982, Moscow Order of Labor Red Banner Higher Technical School MENTI BAUMAN) (DEDICATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCES)

\*: VECHERNYAYA KOMPANIYA, JANUARY-DECEMBER 1982

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

Sh-K-A-1 Rev. 1/12

## PHASE I BOOK EXPLOITATION

SOV/1947

25(2) Moscow. Vsesoyuznoye tekhnicheskoye izdatelstvo in. M. V. Brusnitsa.  
Poryableniye dokladchikov detaley mashin i sooruzh. stately (Exhibiting the Service Life of Machine Parts, Collection of Articles) Moscow, Naukglizdat, 1959. 161 p.  
(Series: Its: [Study] 91) Errata slip inserted. 6,000 copies printed.

Eds. (Title page): N. A. Rastek', Report Worker in Science and Technology, Doctor of Technical Sciences, Professor and D. M. Reshetov, Doctor of Technical Sciences, Professor; Ed. (Inside book): R. M. Korshhev, Engineer; Tech. Ed.: V. D. El'kin; Manager, Ed. for Literature on General Technical and Transport Machine Building (Naukglizdat); K. A. Ponomareva, Engineer.

PURPOSE: This collection of articles is intended for mechanical and metallurgical engineers and technicians.

COVERAGE: Articles included in this collection were presented to the Scientific and Technical Convention held at the Moscow Higher Technical School in 1957. The Convention set to explore the possibility of extending the service life of machine and their parts. This article cover problems pertaining to machine building, engineering, and the thermal and chemical treatment of the materials used for machine parts. Pretreatment and processing of machine parts and the materials from which they are made are reviewed, and ways of extending their service life explained. Causes of material corrosion fatigue and destruction are investigated. Problems of extending the service life of automobiles, lowering their weight, improving the wear resistance of brake linings, and eliminating overheating are discussed. In addition, low temperature crystallization and structural steel is described, and the durability of tractor transmissions and ways of improving it dealt with. The book contains numerous graphs, tables, illustrations and formulas. Individual articles are accompanied by references.

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Ulyanov, R. V. Structural Instability of Low Alloyed Steel Used For Steam Boilers	113
Shchelkov, M. S. Studying the Wear Resistance of the Highly Durable Cast Iron-Malleable Cast Iron	125
Drubilina, Ye. M. Low Temperature Gas Cyanidation of Structural Steel	142
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Resolution of the Scientific and Technical Convention Held At the NFTU (The Moscow Higher Technical School) on Problems of Extending the Service Life of Machines	160

AVAILABILITY: Library of Congress

25(2)  
9-9-59

Card 4/4

⑥

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHKALIKOV, M.S., kand.tekhn.nauk

Investigating wear resistance of high-grade cast iron subjected  
to friction. [Trudy] MVTU no.91:125-141 '59. (MIRA 12:?)  
(Cast iron--Testing)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHKALIKOV, N.S.

Industry of the Novosibirsk Economic Council. Biul.tekh.-ekon.  
inform. no.1:80-81 '62. (MIRA 15:2)  
(Novosibirsk Province--Industry)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

SHKALIKOV, Nikolay Sergeyevich; GRIGOR'YEV, V.; VOLKOVA, K.V., red.

[The West Siberian Economic Region] Zapadno-Sibirskii ekonomicheskii. Novosibirsk, Zapadno-Sibirske knizhnoe izd-vo, 1963. 62 p. (MIRA 18:5)

J. Machal'nik planovo-ekonomicheskogo upravleniya sovnarkhoza "Zapadno-Sibirskiy" (for Shkalikov).

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHKALIKOV, V.S.

Vibration-damping foundation for precise measurements. Trudy  
VNIM no.37:49-52 '59. (MIRA 13:4)  
(Damping (Mechanics))

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

S/589/61/000/050/004/006  
D234/D308

AUTHOR:

Shkalikov, V. S.

TITLE:

A standard vibrational installation

SOURCE:

USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta. no. 50 (110). Moscow, 1961. Issledovaniya v oblasti mekhanicheskikh izmereniy, 156-159

TEXT: The author describes an installation for checking vibration instruments measuring mechanical vibrations in the range 50 - 10,000 c/s, with amplitudes between 1 and 5000 microns and accelerations up to 25 g. The vibrations of the platform are caused by the interaction of two electromagnetic fields. The coefficient of non-linear distortions was found not to exceed 1.5% for frequencies between 1000 and 5000 c/s, and 3% for lower ones. The error of measurement of discrete frequencies by means of Lissajou's figures on an oscillograph screen does not exceed

Card 1/2

S/589/61/000/050/005/006  
D234/D308

AUTHOR: Shkalikov, V. S.

TITLE: A standard installation for producing and measuring vibrations in the range 10 - 50 c/s

SOURCE: USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta. no. 50 (110). Moscow, 1961. Issledovaniya v oblasti mekhanicheskikh izmereniy, 160-165 ✓

TEXT: The author discusses the general requirements for standard vibrational installations and describes an installation consisting of vibrational platform B 50 (V50), an optical device for amplitude measurements, devices for frequency measurements, and a cathode oscilloscope. The platform V50 is constructed according to a mass-spring principle and reduces lateral vibrations to a minimum. A vibrator of rotor type was designed in which defects causing too large lateral vibrations and non-linear distortions

Card 1/2

S/589/61/000/050/005/006  
D234/D308

A standard installation...

were eliminated. The error in frequency measurement does not exceed 0.003%, and that in amplitude measurement--1 micron. Measurement of the double amplitude of the lateral vibrations is possible. The horizontal component of the vibration does not exceed 1% of the basic vertical component at 50 c/s. There are 2 figures and 2 tables.

ASSOCIATION: VNIIM

SUBMITTED: September 24, 1959

Card 2/2

ACC NR: AR6017177

SOURCE CODE: UR/0058/65/000/012/A017/A017

AUTHOR: Shkalikov, V. S.

49  
8

ORG: none

TITLE: Precise measurements of vibration parameters

AVM

SOURCE: Ref. zh. Fizika, Abs. 12A186

REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer i izmerit. priborov SSSR,  
vyp. 76(136), 1965, 243-251

TOPIC TAGS: vibration measurement, vibration frequency, accelerometer

ABSTRACT: Some information on six model vibration units developed at the  
VNIIM [All-Union Scientific Research Institute of Metrology] is given. The units  
are intended for the reproduction of mechanical vibrations and for the measurement

Card 1/2

ACC NR: AR6017177

of their frequency, amplitude, displacement, speed, and acceleration parameters, as well as for the verification and graduation of vibrometers and accelerometers, having a frequency range of 0.1 to 50,000 cps with the permissible error of 0.1—10% and an amplitude of  $5 \times 10^5$ — $1 \times 10^{-3}$   $\mu$  with the permissible error of  $1 \times 10^{-5}$ —3%. [NT]  
[Translation of abstract]

SUB CODE: 20 / ~~SUB DATE: none~~ ORIG REF: none / SOV REF: none /  
~~OTH REF: none~~

Card 2/2

L 27344-66  
ACC NR: AP6007698

SOURCE CODE: UR/0413/66/000/003/0077/0077

AUTHORS: Shkalikov, V. S.; Sinel'nikov, A. Ye.

28  
B

ORG: none

TITLE: An electrodynamic <sup>26</sup>vibration stand. Class 42, No. 178536 /announced by All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)/

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 77

TOPIC TAGS: electrodynamics, vibration measurement, magnetic effect

ABSTRACT: This Author Certificate presents an electrodynamic vibration stand. The stand contains a magnetizing coil and a moving system with a coil which produces the vibrations. The moving system is set in motion by the interaction of magnetic fluxes. The design increases the operational path of the moving system. A potentiometer is mounted in the device for converting the displacement of the operational path of the moving system to an electric signal (see Fig. 1). This signal is fed to the coil of the moving system to create a force directed counter to the exciting force. The latter is produced by the interaction of the magnetic

UDC: 620.178.53:538.2.004

Card 1/2

2

L 27344-66  
ACC NR: AP6007698

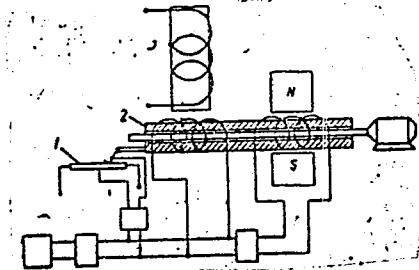


Fig. 1. 1 - potentiometer; 2 - moving system.

fluxes. A speed sensing element is mounted in the moving system. The voltage from the sensing element is fed to the coil of the moving system to compensate the back emf in the system. This back emf is created by stray magnetic fluxes. Orig. art. has: 1 figure.

SUB CODE: 09, 14/ SUBM DATE: 17Jun64

Card 2/2 RB

SHKALIKOV, Yu., starshiy leytenant

Work of a chemical safety instructor. Voen. vest 43 no.1:36-38 Ja '64.  
(MIRA 17:1)

SOURCE CODE: UR/0413/66/000/014/0081/0081

AP7003482

18

INVENTOR: Kurnetsov, G. M.; Logunov, L. A.; Shkalikova, K. I.; Domina, L. V.

ORG: none

TITLE: Gold-base alloy. Class 40, no. 183914

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 14, 1966, 81

TOPIC TAGS: gold base alloy, tunnel diode

ABSTRACT: A gold-base alloy is proposed for use in the manufacture of tunnel diode ohmic contacts. For better physical and engineering properties the components are taken in the following ratios (%): Au - 52-56; Ag - 43-47; Ga - 0.9-1.1; Cu - 0.001 (max); Ni - 0.001 (max); As - 0.001 (max); Sb - 0.001 (max).

[JPRS: 37,480]

SUB CODE: 11, 09 / SUBM DATE: none

UDC: 669.215'22'871

Card 1/1

SHKAL'NIKOV, A. S., KANTOR, S. A., and SUSLOV, V. G.

"Application of Gamma Spectrometry to Bore-Hole Gaging Operations by the Neutron-Induced Radioactivity Method," Utilization of Radioactive Isotopes & Emanations in the Petroleum Industry (Symposium), Min. Petroleum Industry USSR 1957.

Results of the Joint Session of the Technical Council of Min of the Petroleum' Industry USSR and Soviet Sci and Technical Association, Moscow 14-19 Mar 1956.

SHKALOV, K.I.

Bolezni konechnostei loshadei (Diseases of the extremities of horses). Izd. 2-e. Moskva, Sel'khozgiz, 1952. 451 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

DEGTYAR'OVA, V.I. [Dehtiar'ova, V.I.]; SHKANDE, K.P.

Personal worker's technical control of the production in the Cher-novtsy Knit Goods Factory No.1. Leh.prom. no.3:41-44 Jl-S '63.  
(MIRA 16:9)

SHKANDYBIN, A.I.

ANDREYEV, B.I., gvardii podpolkovnik med.sluzhby; SHKANDYBIN, A.I., podpolkovnik  
med.sluzhby; AMITIN, N.V., st.leytenant med.sluzhby.

Treating acute catarrhs of the upper respiratory tract. Voen-med.  
zhur. no.11:76-77 N '57. (MIRA 11:4)  
(CATARRH)

SHKANOV, M.I.

Proofreading of publishers' copies. Sbor.st.po kart. no.6:61-63 '54.  
(MIRA 10:9)

(Cartography) (Proofreading)

ACC NR: A117004850

SOURCE CODE: UR/0137/66/000/010/E015/E015

AUTHOR: Shkanov, I. N.

TITLE: Investigation of the effect of brazed-joint fitting design on the fatigue strength of pipelines

SOURCE: Ref. zh. Metallurgiya, Abs. 10E94

REF SOURCE: Tr. Kazansk. aviat., in-ta, vyp. 88, 1965, 70-78

TOPIC TAGS: pipeline, fatigue strength, fatigue test, brazing alloy, brazed joint, steel

ABSTRACT: A method of testing the fatigue strength of pipeline structural members on standard-type machines is introduced. It was established that by improving the design of fittings it is possible to raise the fatigue strength of brazed joints. A design of a conic fitting ( $l = 1.5d$ ) which increases the fatigue strength of a brazed joint by 20% is presented. A testing method which closely models the operational conditions of pipelines is described. Diagrams showing tensile stresses with uniaxial and biaxial extension are presented. The effect of peripheral stress caused by internal pressure which lowers the fatigue strength

Card 1/2

UDC: 621.791.001:539.43:621.643

ACC NR: AR7004859

of St1-18N9T steel joints is determined. Reduced depth of penetration of brazing into the joints was shown to lower fatigue strength, especially under high internal pressure. V. Fomenko. [Translation of abstract] [KP]

SUB CODE: 11/

Card 2/2

L 8454-66 EWT(d)/EWT(l)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/  
ACC NR: AT5026399 EWP(z)/EWP(b)/EWP(l) SOURCE CODE: UR/2529/63/000/081/0081/0090  
MJW/JD/EM

AUTHOR: Shkanov, I. N.

40  
36  
B71

ORG: Kazan Aviation Institute (Kazanskiy aviatsionnyy institut)

TITLE: A technique for studying fatigue strength in conditions of the complex stress state

SOURCE: Kazan Aviatsionnyy institut. Trudy, no. 81, 1963. Prikladnaya mekhanika (Applied mechanics), 81-90

TOPIC TAGS: fatigue, fatigue strength, metal fatigue, metal fatigue strength, material strength

ABSTRACT: A study was performed in order to develop a method for evaluating the effect of biaxial tension on fatigue strength in deflection. Figure 1 shows the experimental apparatus previously described by the author (Mashina dlya ispytaniya na ustalost' pri vysokoy temperaturе v aggressivnoy srede s programmnym nagruzheniyem. Udostovereniye o registratsii No. 36104, 1963). A tubular specimen 1 is clamped in unit 2 with the aid of pivot hinge 3 coaxially with the spindle.

Card 1/3

2

L 8454-66

ACC NR: AT5026399

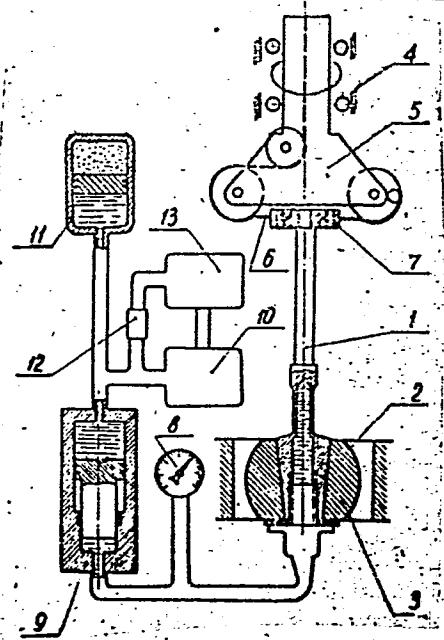


Fig. 1. Sketch  
of the testing  
device.

Card 2/3

L 8454-66

ACC NR: AT5026399

3

headstock 4 within which the deviator 5 rotates. The tight cable lines 6 are fastened to a collar 7 so that the specimen may be loaded in the transverse direction, thus creating a deflection moment. Item 8 is a high pressure (up to 1000 atm) manometer. Pressure is transmitted to the specimen from multiplicator 9, consisting of high and low pressure cylinders. Pump 10 pumps working fluid AMG-10 into the low pressure cylinder. Hydroaccumulator 11 is used for maintaining pressure for the duration of the experiment. Excess pressure is relieved through reduction valve 12 and reservoir 13. A description is given of the procedures used in calibrating the machine. Tests were performed on the machine to measure <sup>9m</sup> the fatigue limits of Z0KhGSAN steel under uniaxial and biaxial tension, and the results are presented in data plots. The author states that the test device can closely approximate actual fatigue stress conditions; he recommends that the method be used to measure the drop in fatigue limit of components exposed to biaxial stresses. Student B. Yermolenko assisted in the calculations. Orig. art. has: 9 equations and 5 figures.

SUB CODE: 20/

SUBM DATE: 25Nov63/

ORIG REF: 008/

OTH REF: 004

\* [Probably 30X1CA designation]

Card 3/3

I. 14511-66 EWT(1)/EWT(m)/EXP(u)/EWA(d)/T/EXP(v)/EXP(t)/EXP(k)/EXP(z)/EXP(h)  
ACC NR: AT6003158 MJW/PD/FM/RW SOURCE CODE: UR/2529/64/000/084/0118/0131

AUTHOR: Shkanov, I. N. (Senior Lecturer) 45  
44

ORG: Kazan Aviation Institute (Kazanskiy aviatsionnyy institut) B+1

TITLE: Comparative fatigue strength of permanent connections of piping made by  
soldering and welding 16

SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 84, 1964. Aviatsionnaya  
tekhnologiya i organizatsiya proizvodstva (Aviation technology and production  
management), 118-131

TOPIC TAGS: fatigue test, fatigue strength, mechanical fatigue, metal soldering,  
pipe, solder, welding, steel / VPr-1 solder, IKh18N9T steel

ABSTRACT: A method of testing specimens of piping for fatigue strength with stand-  
ard machines is developed, and the relative fatigue strengths of soldered and  
welded connections are compared. The specimens had four designs which simulated  
segments (A-D) of a fuel collector (see Fig. 1) with pipes made of IKh18N9T steel.  
The apparatus used is described in great detail. The results of the tests show  
that the fatigue strength of the pipes is higher in the delivered state than after  
hardening or annealing (on the average,  $\pm 25-26 \text{ kg/mm}^2$ ). The fatigue strength  
of the soldered connections in all specimens was higher than with welded connections.

Card 1/2

L 114511-66  
ACC NR: AT6003158

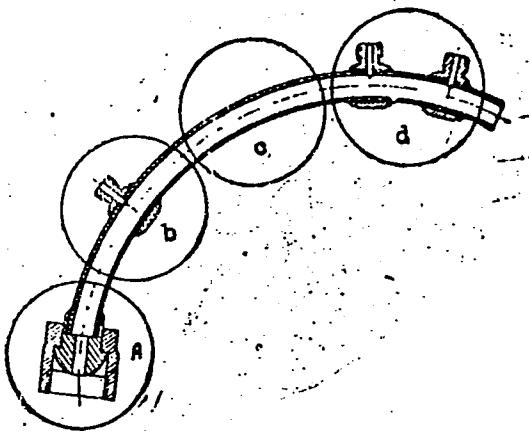


Fig. 1. Segments of fuel collector.

Static destruction was accomplished at a pressure of 1030 atm. Soldering (VPr-1, <sup>1/2</sup> solder was used) was found to have many advantages over welding. Internal pressure was found to reduce the fatigue strength of piping. Orig. art. has: 2 tables, 5 diagrams, and 1 graph.

SUB CODE: 13/ SUBM DATE: 03Oct63/ ORIG REF: 007

TS  
Card 2/2

USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, № 2, 1957, 6271

Author: Dudkin, M. S., Shkantova, N. G.

Institution: None

Title: Isolation of Cellulose from Hulls of Groats-Yielding Grain and Its Characteristics

Original Publication: Zh. prikl. khimii, 1956, 29, № 6, 922-926

Abstract: Cellulose (C) from hulls of buckwheat, proso- and foxtail millet was isolated by the nitric-alkali method (concentration of acid and alkali was varied). Best yields of C (in comparison with the method of Henneberg and Stohmann) were obtained on treatment with 1% solution of HNO<sub>3</sub> and 3% solution of NaOH, for 60 minutes at 98-99°. Results of hydrolysis of the C thus obtained are given.

Card 1/1

SHKANTOVA, N.G.

M  
Isolation of cellulose from hulls of the grain of barley cultures and its characterization. M. S. Dudkin and N. G. Shkantova. *J. Appl. Chem. U.S.S.R.* 29, 899-1003 (1956) (English translation). See *C.A.* 50, 16076b. I.M.R.

DUDKIN, M.S.; SKORNYAKOVA, N.S.; SHKANTOVA, N.G.

Action of nitric acid on polysaccharides in grain hulls and  
capsules. Zhur.prikl.khim. 34 no.10:2320-2327 O '61.  
(MIRA 14:11)

1. Kafedra organicheskoy khimii Odesskogo tekhnologicheskogo  
instituta imeni I.V.Stalina.  
(Nitric acid) (Polysaccharides)

DUDKIN, M.S.; KHAIT, S.Z.; SHKANTOVA, N.G.; LEVINA, Z.V.

Growing feed yeasts on the hydrolyzates of agricultural  
polysaccharide wastes. Izv. vys. ucheb. zav.; pishch. tekhn.  
no.2:108-112 '63. (MIRA 16:5)

1. Odesskiy tekhnologicheskiy institut imeni M.V. Lomonosova,  
kafedra organicheskoy khimii.  
(Yeast) (Polysaccarides)

DUDKIN, M.S.; SHKANTOVA, N.G.; SKORNYAKOVA, N.S.; LEMLE, N.A.

Analysis of the chemical composition and the hydrolysis  
kinetics of polysaccharides from phyllophora and flowering  
plants of the Black Sea and its limans. Zhur. prikl. khim.  
37 no.2:413-418 F '64. (MIRA 17:9)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova.

DUTKIN, M.S.; SHKANTOVA, N.G.; SKORYAKOVA, N.E.; RYZER, V.V.

Chemical composition and hydrolysis of the hemicelluloses  
of pea and soybean hulls. Bichhim. zер. i khlebopech.  
no.7;202-208 '64. (MIRA 17:9)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

Составлено в 1985 г. в соответствии с Указом Президента СССР от 15 марта 1985 г.

Национальный научно-исследовательский институт ядерной энергетики  
1934179 1985.

1. Государственный технический институт ядерной энергетики,

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

DUDKIN, M.S.; SHNATICOVA, N.I.; KHAIT, S.Z.; SKORNYAKOVA, N.S.

Sea algae Cystoseira and Cladophora as raw material for producing  
simple sugars and fission yeast. Nauch.dokl.vys.shkoly; biol.nauki  
no.3:125-129 '65. (MIRA 18:8)

Ie. Rekomendovana kafedroy organicheskoy khimii Odesskogo  
tekhnologicheskogo instituta.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

L 27635-66 EWT(1) SCTB DD  
ACC NR: AP6018430

(A,N)

SOURCE CODE: UR/0325/65/000/003/0125/0129

AUTHOR: Dudkin, M. S.; Shkantova, N. G.; Khait, S. Z.; Skornyakova, N. S.42  
DORG: Department of Organic Chemistry, Odessa Technological Institute (Kafedra  
organicheskoy khimii Odesskogo tekhnologicheskogo instituta)TITLE: Sea algae Cystoseira and Cladophora as raw materials for obtaining simple  
sugars and yeasts for feed

SOURCE: Nauchnyye doklady vysshoy shkoly. Biologicheskiye nauki, no. 3, 1965, 125-129

TOPIC TAGS: algae, yeast, polysaccharide, hydrolysis, protein, polymerization

ABSTRACT: The article describes the hydrolysis of polysaccharides of the sea algae Cystoseira and Cladophora and estimates the efficiency of growing yeasts for feed (strains Kr-9 and SD-10) on the hydrolysates. The greatest yield of biomass was with SD-10. The yeasts obtained were dark in color, morphologically normal, but somewhat smaller than ordinary feed yeasts grown on Rider's medium. "Raw" protein content ranged from 40.62 to 51.56%, with the higher percentage observed in yeasts grown on Cladophora hydrolysate. The biomass of dry yeasts obtained from one ton of raw material ranged from 40 to 52 kg. Cystoseira and Cladophora contain from 37 to 52% polysaccharides; this corresponds to 42-58% of monosaccharides in the hydrolysates.

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ACC NR: AF6018430

after complete polymerization of the polysaccharides. For an average yeast yield of 50% of the reducing substances, every ton of absolutely dry algae can serve as the source of 210-290 kg of absolutely dry yeasts. Since Cystoseira and Cladophora contain 11% nitrogenous substance, supplementary enrichment with protein is called for. Orig. art. has: 7 tables. [JPRS] O

SUB CODE: 06, 07 / SUBM DATE: 02Sep64 / ORIG REF: 005

Card 2/2 CC

SHKAP, L.TS.

Active band resistance-capacitance filter for acoustic  
measurements. Izm.tekh. no.10:20-22 O '65.

(MIRA 18:12)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHEAF, L. M.

Some considerations on the State System of Standard Information  
Data. Izm. tekhn. no. 11/7 N 164. (MIRA 18-3)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5

SHISHCHENKO, Roman Ivanovich; GRIGORYAN, Ashot Yakovlevich; SHKAPENYUK,  
Yakov Yerakhmiyovich; GONCHAROV, I.A., red. izdatel'stva.

[Equipment for land and offshore oil well drilling] Nazemnye i  
morskie burovye sooruzheniya. Baku, Azerbaidzhanskoe gos.izd-vo  
nauchno-tekhn.i neft.lit-ry, 1956. 319 p. (MIRA 10:12)  
(Oil well drilling--Equipment and supplies)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620009-5"